6LU8

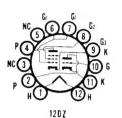
16LU8, 21LU8

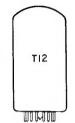
Color Television Type

VERTICAL DEFLECTION OSCILLATOR and AMPLIFIER

High Mu Triode and Beam Power Pentode

ConstructionCompactron T	-12
BaseButton 12 Pin, E12	-74
Basing12	DΖ
Outline12	-57
Maximum Diameter	In.
Maximum Seated Height2.750	In.
Maximum Overall Height3.125	In.





ELEC	TRIC	CAL	DATA	
HEA	TER	OPE	ERATIO	N

HEATER OPERATION	21LU8	16LU8	6LU8
Heater Voltage Heater Current Heater Warm-up Time	21 450 11	15.8 600 11	6.3 Volts 1500 Ma — Seconds
Maximum Heater-Cathode Voltage Heater Negative with Respect to Cathode			
Total DC and Peak Heater Positive with Respect to Cathode			200 Volts
DC			100 Volts
Total DC and Peak			200 Volts
DIRECT INTERELECTRODE CAPACITANCES (Unsh Triode Section	ileided)		
Grid to Plate: tg to tp			6.0 Pf
Input: tg to (h + Tk)			7.0 Pf
Output: tp to (h + Tk)		• • • • • • • • • •	2.0 Pf
Pentode Section			
Grid No. 1 to Plate: pg1 to pp			0.5 Pf
Input: pg1 to (h + Pk + Pg2)			16 Pf
Output: pp to $(h + Pk + Pg2)$			9.0 Pf
Coupling			
Pentode Grid No. 1 to Triode Plate (Max.)			0.13 Pf
Pentode Plate to Triode Plate (Max.)			0.40 Pf

RATING	S (Design	Maximum	Rating	System)
Vertical	Deflection	Oscillator	and A	mplifier(1)

	Triode	Pentode
	Osc.	Amp.
Plate Voltage (Max.)	400	400 Volts
Grid No. 2 Voltage (Max.)	_	300 Volts
Peak Positive Pulse Plate Voltage (Max.)		2500 Volts
Peak Negative Grid No. 1 Voltage (Max.)	400	250 Volts
Plate Dissipation (Max.)(2)	2.5	14 Watts
Grid No. 2 Dissipation (Max.)	_	2.75 Watts
Average Cathode Current (Max.)	30	75 Ma
Peak Cathode Current (Max.)	105	260 Ma
Grid Circuit Resistance		
Self Bias (Max.)	2.2	2.2 Megohms
Fixed Bias (Max.)	_	1.0 Megohm
Bulb Temperature (Max.)	_	210 °C
CHARACTERISTICS AND TYPICAL OPERATION		
	Triode	Pantoda

	Section	Section
Plate Voltage	250	135 Volts
Grid No. 2 Voltage	_	120 Volts
Grid No. 1 Voltage	-4	-10 Volts
Plate Current	2.3	56 Ma
Grid No. 2 Current		3 Ma
Transconductance	3600	9300 µmhos
Amplification Factor	58	6.5(3)
Plate Resistance (Approx.)	16,000	12,000 Ohms
Ec for $lb = 10 \mu a$	-6.6	— Volts
Ec for $lb = 1$ Ma (Approx.)		-26 Volts
Ec for $lb = 100 \mu a$	_	-30 Volts
INSTANTANEOUS PLATE KNEE VALUES		

Eb = 45 V; Ec2 = 125 V; and Ec = 0 V Ib = 200 Ma, and Ic2 = 20 Ma